

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/31/02

Date Received: 05/02/02

Project: Metro Self Monitor Grab, PO# M67945

Date Extracted: 05/20/02

Date Analyzed: 05/23/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M67945 205015-01	0.20	0.12	0.07	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 205066-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.40	0.39	3	0-20
Copper	mg/L (ppm)	0.30	0.29	3	0-20
Nickel	mg/L (ppm)	0.29	0.29	0	0-20
Zinc	mg/L (ppm)	0.07	0.07	0	0-20

Laboratory Code: 205066-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.40	93	80-120
Copper	mg/L (ppm)	2	0.30	91	80-120
Nickel	mg/L (ppm)	4	0.29	89	80-120
Zinc	mg/L (ppm)	2	0.07	95	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	102	103	80-120	1
Copper	mg/L (ppm)	2	103	105	80-120	2
Nickel	mg/L (ppm)	4	98	99	80-120	1
Zinc	mg/L (ppm)	2	105	103	80-120	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
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May 31, 2002

DUPLICATE COPY

INVOICE # 02ACU0531-3

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor Grab, PO# M67945 - Results of testing requested
by Gerry Thompson for material submitted on May 2, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

205015

SAMPLE CHAIN OF CUSTODY

MME 5.2.02 AI₃

Send Report To

Gerald Thompson

Company

ALASKAN Copper works

Address

628 S. Harbor

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-4309

SAMPLERS (signature)

PROJECT NAME/NO.

METRO SELF monitor
GRAB

PO #

M6795

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CHLORINATED				
M6795	01	5/2/02	7:00pm	H2O	1							✓				

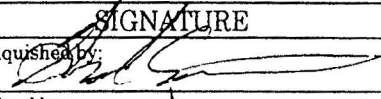

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	GERALD Thompson	ACW	5/2/02	1:05 PM
Received by: 	Eric Young	FFB Inc	✓	1:05
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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May 31, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

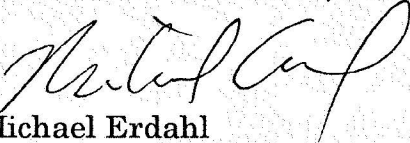
Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 2, 2002 from your Metro Self Monitor Grab, PO# M67945 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0531R.DOC